

Historical Floods: Shenandoah River at Cootes Store, Virginia

Latitude: 38.637

Flood Stage: 15 ft

Period of Record: 1877-Present

Last Flood: 4/16/2011

Longitude: -78.853

Number of Floods: 23

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code					
11/25/1877	20.90	-9,999	Moderate	C1 C8	9/19/2003	15.22	20,400	Minor	none
6/1/1889	18.80	-9,999	Moderate	C1 C8					
5/12/1924	16.70	17,800	Minor	C1 C4 C8	4/16/2011	16.33	22,200	Minor	none
4/16/1929	15.40	14,600	Minor	C1					
12/1/1934	19.00	24,600	Moderate	C1					
3/17/1936	23.25	40,500	Major	C1					
4/25/1937	17.00	186,000	Minor	C1					
5/22/1942	16.93	18,300	Minor	none					
10/15/1942	25.30	50,000	Major	none					
9/18/1945	15.90	15,800	Minor	none					
8/18/1955	16.60	17,500	Minor	none					
7/9/1970	16.55	17,400	Minor	none					
10/5/1972	19.50	26,400	Moderate	none					
3/19/1975	17.29	19,500	Minor	none					
10/9/1976	16.98	18,500	Minor	none					
9/5/1979	15.69	15,500	Minor	none					
10/2/1979	15.25	14,600	Minor	none					
11/4/1985	25.13	49,200	Major	none					
8/17/1994	15.26	14,800	Minor	none					
1/19/1996	19.71	27,000	Moderate	none					
9/6/1996	27.86	63,400	Major	none					

Drainage Area: 210 sq mi

Gage Datum: 1051.8 ft MSL

Shenandoah Basin

County of Gage: Rockingham
County of Forecast Point: Rockingham

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-9999 signifies missing data

MARFC Codes

Code	Description
C1	Crest information looks unreliable and incomplete and not used in frequency calculations. Some of the floods are based on current flood stage and nearby gage information.
C2	Crest information looks reliable despite potential problems. This data was used in frequency calculations.
C3	Crest height estimated by the USGS.
C4	Crest height is from the National Weather Service.
C5	Crest height affected by backwater.
C6	Crest occurred at a previous flood stage that is lower than the current flood stage. The crests below the new flood stage are not used in flood frequency calculations.
C7	Crest from USGS yearly peak and/or date is different than the crest we provide. In many cases MARFC uses crest based on backwater or ice effects. Crest month or day of occurrence has been estimated by The Middle Atlantic River Forecast Center usually based on nearby gage information.
C8	Crest date (day) in the month is unknown.
C9	Flow is an estimate.
F1	Flow affected by regulation or diversion and in some cases to an unknown degree.
F2	Flow effected by snow-melt, ice jam or debris jam break up.
F3	Flow affected by dam failure.
F4	Flow - All or part of the record affected by urbanization, mining, agricultural changes, channelization or other factors.
F5	Gage height at a different site and/or datum.
G1	Gage is not an official USGS gage with crests provided by the NWS. Crest information looks unreliable and incomplete and not used in flood frequency calculations.
G2	Gage datum changed during this year.

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